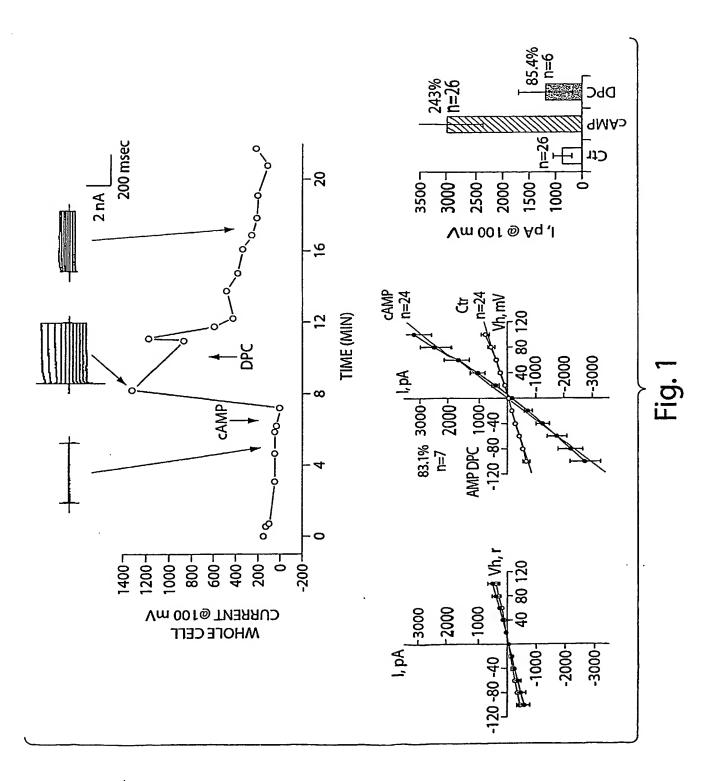
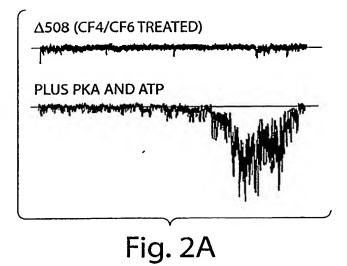
WO 2005/094370 PCT/US2005/010744



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350 250 150 50 0 1 2 3 Fig. 2B

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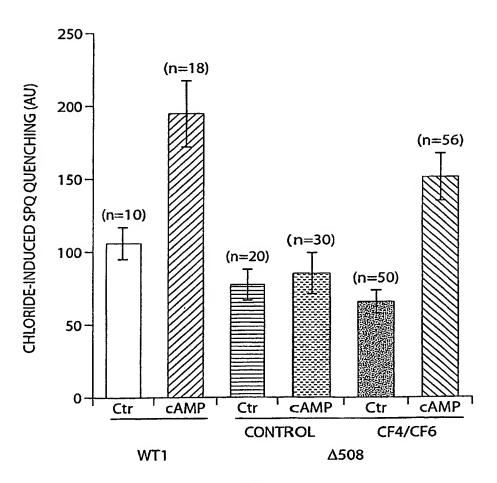


Fig. 3

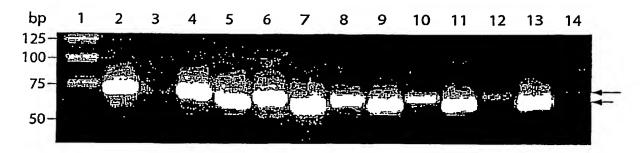


Fig. 4

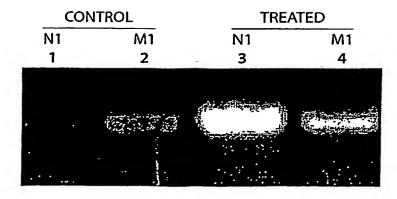


Fig. 5
BEST AVAILABLE COPY

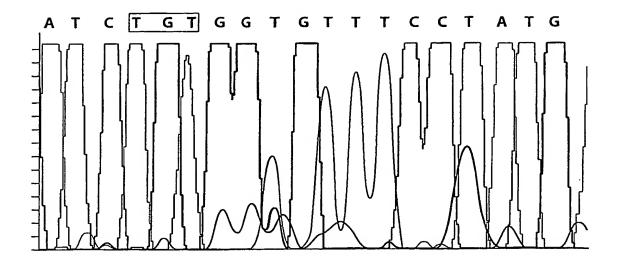


Fig. 6

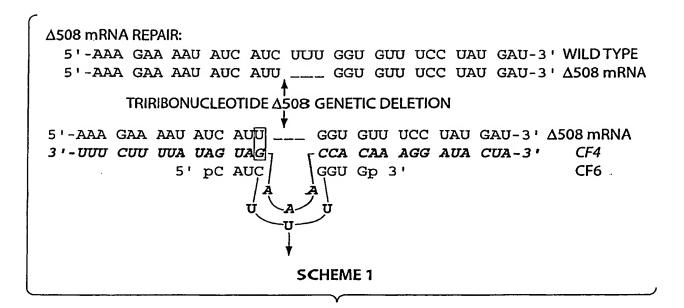


Fig. 7A

VARIED RIBONUCLEOTIDE INSERTION AND DELETION STEPS, WITH (c) BEING THE BEST RESULT):

REPEATED SEQUENCE ANALYSIS OF RT-PCR PRODUCTS WITH DIFFERENT PRIMERS:

(a) ARMS REVERSE PRIMER (N1)

5'-AAA GAA AAU AUC AL... UGU GGU GUU UCC UAU GAU-3'

(b) ARMS FORWARD PRIMER (NF1)

5'-AAA GAA AAU AUC AUC UGU GUU UCC UAU GAU-3'

(c) ARMS FORWARD PS PRIMER (SNF1)

5'-AAA GAA AAU AUC AUC UGU GGU GUU UCC UAU GAU-3'

SCHEME 1

Fig. 7B

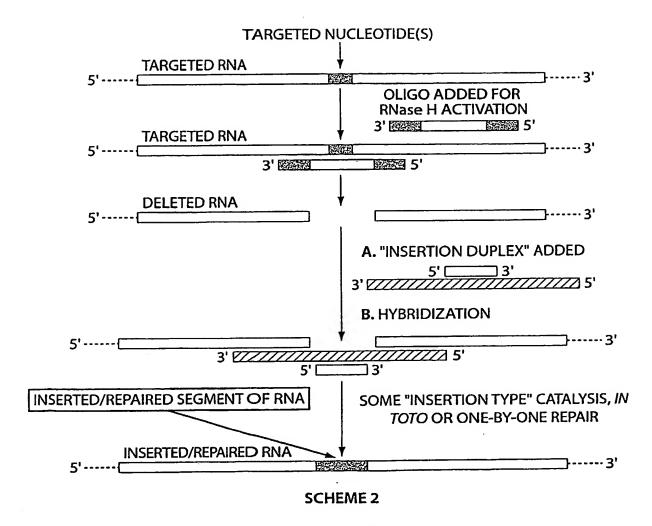


Fig. 8

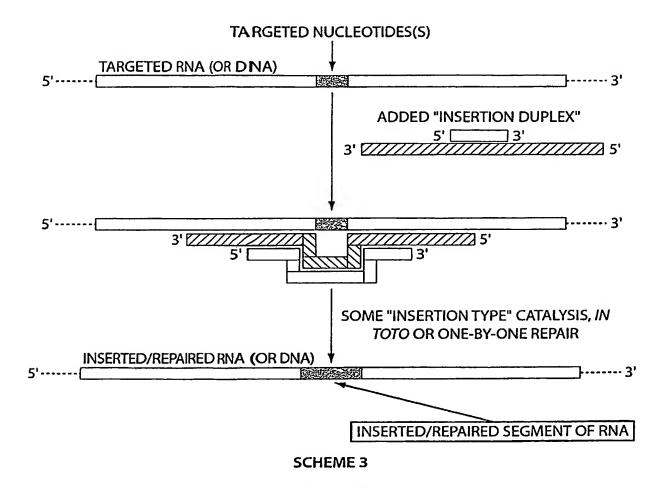


Fig. 9

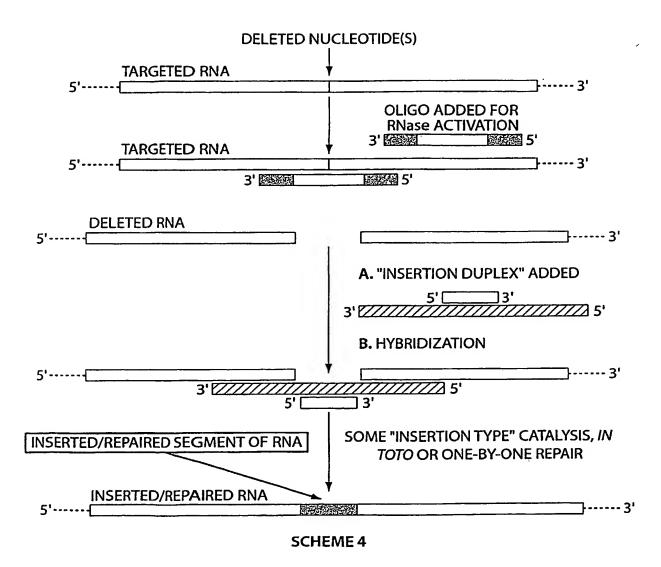


Fig. 10

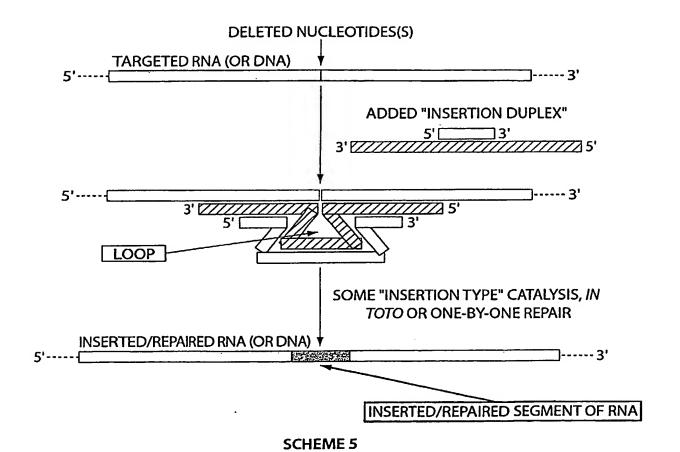


Fig. 11

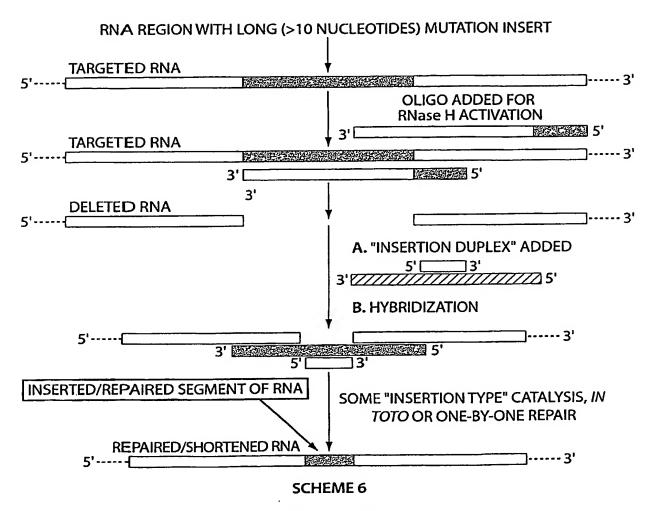


Fig. 12

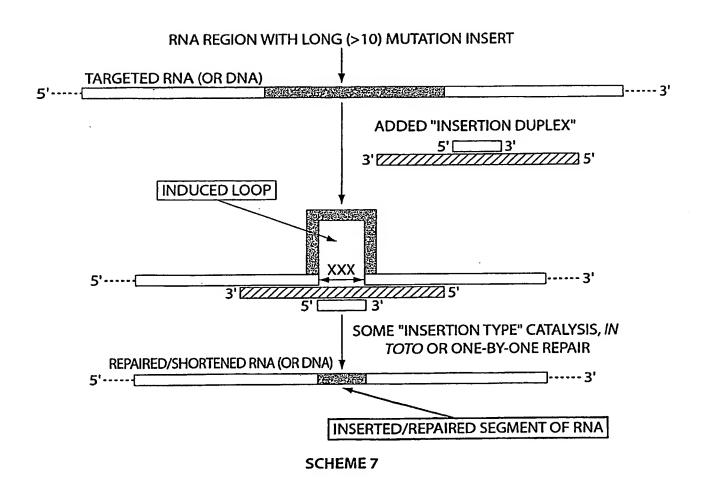


Fig. 13

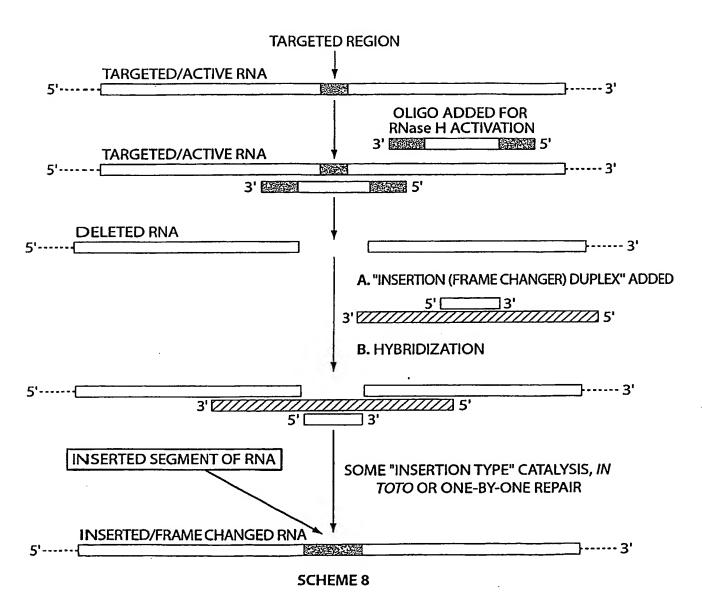


Fig. 14

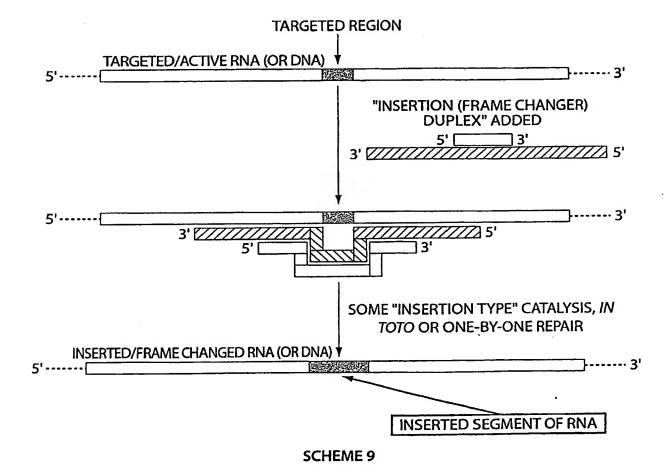
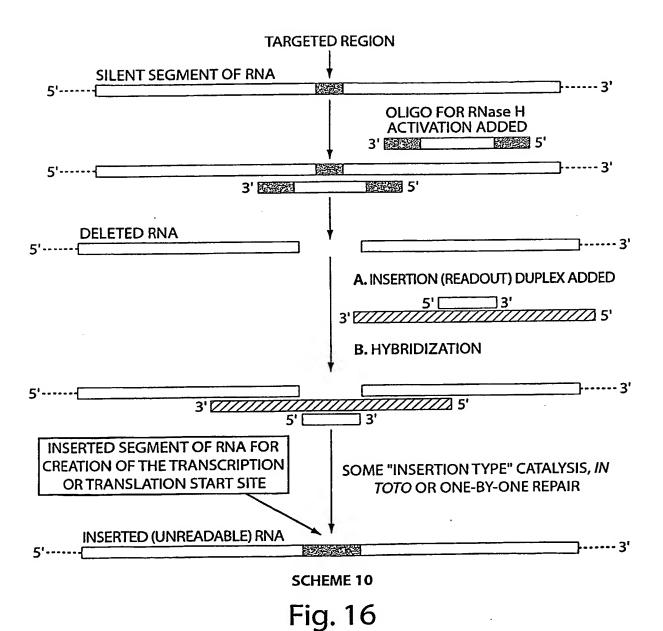
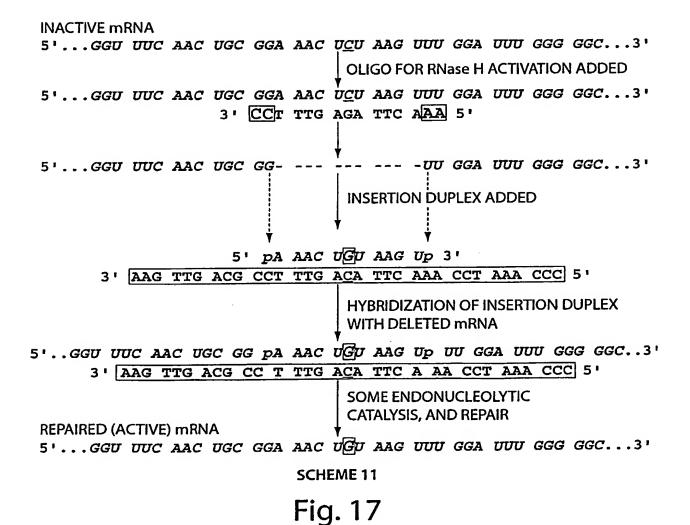


Fig. 15



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INACTIVE mRNA

5'...GGU UUC AAC UGC GGA AAC UCU AAG UUU GGA UUU GGG GGC...3'

INSERTION DUPLEX ADDED

5'...GGU UUC AAC UGC GGA AAC U U AAG UUU GGA UUU GGG GGC...3'

3' AAG TTG ACG CCT TTG A A TTC AAA CCT AAA CCC 5'

C

SOME ENDONUCLEOLYTIC
CATALYSIS, AND REPAIR

F'...GGU UUC AAC UGC GGA AAC UGU AAG UUU GGA UUU GGG GGC...3'

SCHEME 12

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Δ508 mRNA REPAIR:
  5'-AAA GAA AAU AUC AUC UUU GGU GUU UCC UAU GAU-3' WILDTYPE
  5'-AAA GAA AAU AUC AUU ___ GGU GUU UCC UAU GAU-3' Δ508 mRNA
           TRIRIBONUCLEOTIDE A508 GENETIC DELETION
    5'-AAA GAA AAU AUC AU<u>U</u>*GGU GUU UCC UAU GAU-3' Δ508 mRNA
              3' A TAG TAA CCA CAA A 5'
                             OLIGO FOR RNase H ACTIVATION ADDED
    5'--AAA GAA AAU AUC A....U GUU UCC UAU GAU-3'
                            PLUS INSERTION DUPLEX
  5'--AAA GAA AAU AUC A_____U GUU UCC UAU GAU-3'
  3' UUU CUU UUA UAG UAG AAA CCA CAA AGG AUA CUA 5'
                   . pC AUC UUU GGU Gp
                             SOME ENDONUCLEOLYTIC CATALYSES, AND REPAIR
REPAIRED (INSERTED) mRNA
5'---AAA GAA AAU AUC AUC UUU GGU GUU UCC UAU GAU---3'
                           SCHEME 13
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Δ508 mRNA REPAIR:

5'-AAA GAA AAU AUC AUC UUU GGU GUU UCC UAU GAU-3' WILD TYPE

5'-AAA GAA AAU AUC AUU ___ GGU GUU UCC UAU GAU-3' Δ508 mRNA

TRIRIBONUCLEOTIDE Δ508 GENETIC DELETION

5'-AAA GAA AAU AUC AUU*GGU GUU UCC UAU GAU-3' Δ508 mRNA

INSERTION DUPLEX ADDED

5'-AAA GAA AAU AUC AUU*GGU GUU UCC UAU GAU-3' Δ508 mRNA

3' UUU CUU UUA UAG UAG CCA CAA AGG AUA CUA 5'

PC AUC GGU GP

SOME ENDONUCLEOLYTIC CATALYSES, AND REPAIR

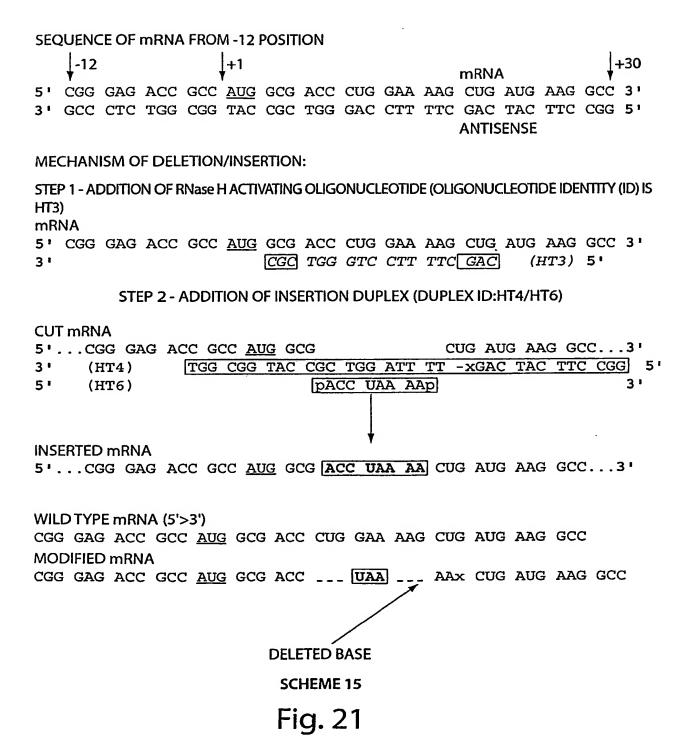
REPAIRED (INSERTED) mRNA

5'---AAA GAA AAU AUC AUC UUU GGU GUU UCC UAU GAU---3'

SCHEME 14
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AIM-1 ALLELE OF MATP

MUTATED DUPLEX

- 5' AGC AGG ACC CTC AGG GCT-GTC AGC CAG TGG GAT GCA 3'
- 3' TCG TCC TGG GAG TCC CGA-CAG TCG GTC ACC CTA CGT 5'

WILD TYPE

- 5' AGG ACC CTC AGG GCT CGT CGC T GTC AGC CAG TGC GAT GCA 3'
- 3' TCC TGG GAG TCC CGA GCA GCG A CAG TCG GTC ACG CTA CGT 5'

MECHANISM OF DELETION/INSERTION:

MUTATED mRNA

- 5' AGC AGG ACC CUC AGG GCU GUC AGC CAG UGG GAU GCA 3' 3 · UCC CGA CAG UCG 5 · (OLIGOS ID: Alb 3)
- 5' AGC AGG ACC CTC AGG-----AGC CAG TGG GAT GCA 3' 3' UCC CGA CAG UCG 5' (OLIGOS ID: Alb 3)

Alb 4/Alb 6 DUPLEX ADDED

5' pGCU CGU CGC U GUCp 3' Alb6

3' UGG GAG UCC CGA GCA GCG A CAG UCG GUC ACC 5' Alb 4

REPAIRED mRNA

5' AGC AGG ACC CUC AGG GCU CGC U GUC AGC CAG UGG GAU GCA

SCHEME 16